

METHOD FOR RECOGNIZING STATION AND METHOD FOR ESTABLISHING LINK IN HOME NETWORK

ABSTRACT OF THE DISCLOSURE

5 In a method for recognizing stations in a home network of an OFDM scheme and a
method for establishing a link between stations in a home network having a plurality of
stations, a node number is assigned to the each station and subchannels corresponding
to each node number are assigned to each station, the starting station constructing tones
corresponding to the subchannels assigned to its own node number and the node number
10 of the destination station as single OFDM symbol, and placing the OFDM symbol in a
frame for transmission, and stations other than the starting station detecting the tones
from the frame, recovering the node number using indices of the subchannels obtained
from the tones and recognizing the starting station and the destination station. According
to this method, it is possible to mitigate or eliminate the overhead needed in recovering
15 data of a specific header in all stations and estimating a channel by detecting a signal in a
data transmission between stations while sharing a medium, by demodulating the first
OFDM symbol and detecting information on a destination station.

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